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1 Backward compatible high dynamic range MPEG video compression
   Rafał Mantiuk, Alexander Efremov, Karol Myszkowski, Hans-Peter Seidel
   July 2006   ACM Transactions on Graphics (TOG),   Volume 25 Issue 3
   Publisher: ACM

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       To embrace the imminent transition from traditional low-contrast video (LDR) content to superior
       high dynamic range (HDR) content, we propose a novel backward compatible HDR video
       compression (HDR MPEG) method. We introduce a compact reconstruction function ...

       Keywords: MPEG, backward compatibility, high dynamic range, prefiltering, tone mapping, video
       compression, visible difference predictor, visual masking, visual perception

2 Backward compatible high dynamic range MPEG video compression
   Rafał Mantiuk, Alexander Efremov, Karol Myszkowski, Hans-Peter Seidel
   July 2006   SIGGRAPH '06: ACM SIGGRAPH 2006 Papers
   Publisher: ACM

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       compression (HDR MPEG) method. We introduce a compact reconstruction function ...

       Keywords: MPEG, backward compatibility, high dynamic range, prefiltering, tone mapping, video
       compression, visible difference predictor, visual masking, visual perception

3 Resurrecting the applet paradigm
   Eric Roberts
   March 2007 SIGCSE '07: Proceedings of the 38th SIGCSE technical symposium on Computer science
             education
   Publisher: ACM
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       Since the introduction of Java in 1995, educators have recognized the potential of Java applets as
       an educational resource. Sadly, the continuing evolution of Java has made it harder to use applets,
       largely because it is so difficult to keep those applets ...

       Keywords: Java, applet, teaching resources

4 Resurrecting the applet paradigm
Eric Roberts
March 2007 ACM SIGCSE Bulletin, Volume 39 Issue 1
Publisher: ACM
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Keywords: Java, applet, teaching resources

5 4+4: an architecture for evolving the Internet address space back toward transparency
Zoltán Turányi, András Valkó, Andrew T. Campbell
October 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 5
Publisher: ACM
Full text available: pdf(521.88 KB)   Additional Information: full citation, abstract, references, cited by

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We propose 4+4, a simple address extension architecture for Internet that provides an evolutionary approach to extending the existing IPv4 address space in comparison to more complex and disruptive approaches best exemplified by IPv6 deployment. The ...

6 Refactoring for Parameterizing Java Classes
Adam Kiezun, Michael D. Ernst, Frank Tip, Robert M. Fuhrer
May 2007 ICSE '07: Proceedings of the 29th international conference on Software Engineering
Publisher: IEEE Computer Society
Full text available: pdf(276.98 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 129, Citation Count: 0

Type safety and expressiveness of many existing Java libraries and their client applications would improve, if the libraries were upgraded to define generic classes. Ef- ficient and accurate tools exist to assist client applications to use generic libraries, ...

7 Reconciling zero-conf with efficiency in enterprises
Chang Kim, Jennifer Rexford
December 2006 CoNEXT '06: Proceedings of the 2006 ACM CoNEXT conference
Publisher: ACM
Full text available: pdf(132.39 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

A conventional enterprise or campus network comprises Ethernet-based IP subnets interconnected by routers. Although each subnet runs with minimal (or zero) configuration by virtue of Ethernet's flat-addressing and self-learning capability, interconnecting ...

Keywords: IP, enterprise networking, ethernet, zero-configuration

8 Observations on versioning of off-the-shelf components in industrial projects (short paper)
Reidar Conradi, Jingyue Li
September 2005 SCM '05: Proceedings of the 12th international workshop on Software configuration management
Publisher: ACM

Full text available: pdf(510.48 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 34, Citation Count: 0

Using OTS (Off-The-Shelf) components in software projects has become increasing popular in the IT industry. After project managers opt for OTS components, they can decide to use COTS (Commercial-Off-The-Shelf) components or OSS (Open Source Software) ...

9   An Efficient On-Chip Network Interface Offering Guaranteed Services, Shared-Memory Abstraction, and Flexible Network Configuration

Andrei R"dulescu, John Dielissen, Kees Goossens, Edwin Rijpkema, Paul Wielage
February 2004 DATE '04: Proceedings of the conference on Design, automation and test in Europe - Volume 2, Volume 2
Publisher: IEEE Computer Society
Full text available: pdf(134.73 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 46, Citation Count: 3

In this paper we present a network interface for an on-chip network. Our network interface decouples computation from communication by offering a shared-memory abstraction, which is independent of the network implementation. We use a transaction-based ...

10   An efficient neighbor information signaling method for handoff assistance in 802.11 wireless

Gurpal Singh, Ajay Pal Singh Atwal, B. S. Sohi
October 2006 Mobility '06: Proceedings of the 3rd international conference on Mobile technology, applications & systems
Publisher: ACM
Full text available: pdf(178.08 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 41, Citation Count: 0

Fast Handoff is one of the major requirement of the next generation wireless networks. Providing mobile stations with prior knowledge of the neighboring Access points (AP) can assist them in taking a fast and accurate link layer Handoff decisions. Collection ...

Keywords: IEEE 802.11 handoff, neighbor graph, syncscan

11   Providing context-awareness to virtual file system

YongJoo Song, Daeyeon Park
March 2007 SAC '07: Proceedings of the 2007 ACM symposium on Applied computing
Publisher: ACM
Full text available: pdf(89.66 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 85, Citation Count: 0

In ubiquitous environment, adaptive applications require the context-aware data access. This paper proposes a backward-compatible, context-aware virtual file system (CaVFS). Users can find a file by the context without remembering full path. Since CaVFS ...

Keywords: VFS, context aware, context-awareness, file system, ubiquitous computing

12   Cross-layer modeling of adaptive wireless links for QoS support in heterogeneous wired-wireless networks

Qingwen Liu, Shengli Zhou, Georgios B. Giannakis
July 2006 Wireless Networks, Volume 12 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(432.34 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 103, Citation Count: 1

Future wired-wireless multimedia networks require diverse quality-of-service (QoS) support. To this end, it is essential to rely on QoS metrics pertinent to wireless links. In this paper, we develop a cross-layer model for adaptive wireless links, which ...

Keywords: adaptive modulation and coding, cross-layer design, quality of service, queuing analysis

13 Converting java programs to use generic libraries
Alan Donovan, Adam Kiežun, Matthew S. Tschantz, Michael D. Ernst
October 2004 OOPSLA '04: Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications
Publisher: ACM
Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 87,   Citation Count: 9

Java 1.5 will include a type system (called JSR-14) that supports <i>parametric polymorphism</i>, or <i>generic</i> classes. This will bring many benefits to Java programmers, not least because current Java practice makes heavy use of ...

Keywords: JSR-14, Java 1.5, Java 5, generic types, instantiation types, parameterized types, parametric polymorphism, raw types, type inference

14 Converting java programs to use generic libraries
Alan Donovan, Adam Kiežun, Matthew S. Tschantz, Michael D. Ernst
October 2004 ACM SIGPLAN Notices,   Volume 39 Issue 10
Publisher: ACM
Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 87,   Citation Count: 9

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Keywords: JSR-14, Java 1.5, Java 5, generic types, instantiation types, parameterized types, parametric polymorphism, raw types, type inference

15 Dynamic single-user ofdm adaptation for ieee 802.11 systems
James Gross, Marc Emmelmann, Oscar Puñal, Adam Wolisz
October 2007 MSWiM '07: Proceedings of the 10th ACM Symposium on Modeling, analysis, and simulation of wireless and mobile systems
Publisher: ACM
Full text available: pdf(236.49 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 112,   Citation Count: 0

Earlier paper have demonstrated that the achievable throughput of OFDM systems can benefit significantly from individual modulation/transmit power selection on a per sub-carrier basis according to the actual gain of individual sub-carriers (so called ...

Keywords: IEEE 802.11, adaptive modulation, ofdm

16 A-MAC: adaptive medium access control for next generation wireless terminals
Mehmet C. Vuran, Ian F. Akyildiz
June 2007 IEEE/ACM Transactions on Networking (TON),   Volume 15 Issue 3
Publisher: IEEE Press
Full text available: pdf(843.24 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 187,   Citation Count: 0

Next Generation (NG) wireless networks are envisioned to provide high bandwidth to mobile users via bandwidth aggregation over heterogeneous wireless architectures. NG wireless networks, however, impose challenges due to their architectural heterogeneity ...

Keywords: adaptive medium access control, heterogeneous QoS requirements, heterogeneous networks, next generation wireless networks, virtual cube concept

17 Schema mediation for large-scale semantic data sharing
Y. Halevy, G. Ives, Dan Suciu, Igor Tatarinov
March 2005 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 14 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(267.95 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 93,   Citation Count: 1

Intuitively, data management and data integration tools should be well suited for exchanging information in a semantically meaningful way. Unfortunately, they suffer from two significant problems: they typically require a common and comprehensive schema ...

Keywords: Data integration, Peer data management, Schema mediation, Web and databases

18 Evolution of Xerox's network systems architecture
Lawrence Garlick
October 1983 COMM '83: Proceedings of the symposium on Communications Architectures & Protocols
Publisher: ACM
Full text available: pdf(106.18 KB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 13,   Citation Count: 0

Research and development at Xerox's Palo Alto Research Center (PARC) and Office Systems Division (OSD) have led to many advances in an evolving network architecture. As early experimenters in local area networking, researchers at PARC built a prototype ...

19 Evolution of Xerox's network systems architecture
Lawrence Garlick
April 1983   ACM SIGCOMM Computer Communication Review, Volume 13 Issue 2
Publisher: ACM
Full text available: pdf(106.18 KB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 13,   Citation Count: 0

Research and development at Xerox's Palo Alto Research Center (PARC) and Office Systems Division (OSD) have led to many advances in an evolving network architecture. As early experimenters in local area networking, researchers at PARC built a prototype ...

20 Interworking internet telephony and wireless telecommunications networks
Jonathan Lennox, Kazutaka Murakami, Mehmet Karaul, Thomas F. La Porta
October 2001 ACM SIGCOMM Computer Communication Review, Volume 31 Issue 5
Publisher: ACM
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 69,   Citation Count: 0

Internet telephony and mobile telephony are both growing very rapidly. Directly interworking the two presents significant advantages over connecting them through an intermediate PSTN link. We propose three novel schemes for the most complex aspect of ...

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